ARC

# ARC InstaTemp
# Non Touch Thermometer

## User Manual

**ARC Devices, Ltd.**

Welcome to your new state of the art ARC InstaTemp™ digital infrared non touch thermometer! The ARC InstaTemp™ is a digital non touch thermometer that measures and displays human body temperature. This device is intended for use by responsible adults at home.

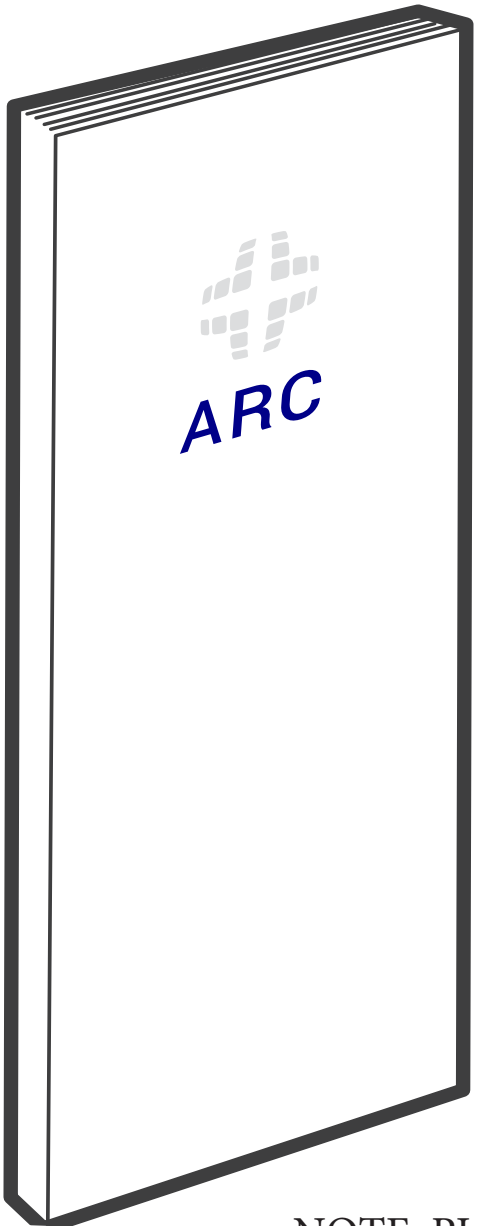
To ensure the best results with your ARC InstaTemp™ thermometer, please be sure to read the following operational and procedural manual carefully. If you give this device to another adult, it is vital that you also pass on this user manual.

The ARC InstaTemp™ is a sophisticated technologically advanced electronic medical device that has been carefully engineered to quickly and accurately measure human body temperature without requiring any contact with the human body. Do not use this device for any other purpose. Only use ARC InstaTemp™ in ambient temperatures ranging from 50–104˚F (10–40˚C). The thermometer and person must remain in a place with no change in room temperature and away from ventilation sources and heat sources for at least 20 minutes before measuring temperature.

GETTING TO KNOW

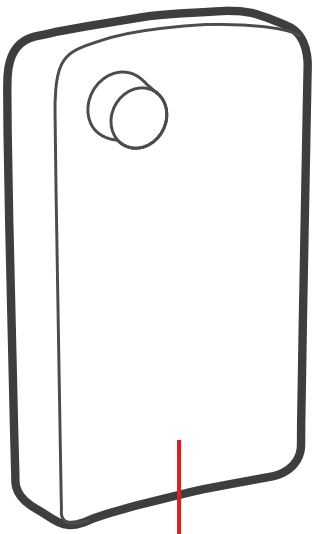
The ARC InstaTemp™

**Manual (x1)**




NOTE: PLEASE READ
PRECAUTIONS BEFORE
OPERATING
ARC InstaTemp

## Wall Mount: Magnetic Storage Holder (optional)



The Wall Mount can be used in two ways:

a) Magnetic Wall Mount will adhere to any flat metal surface. (E.g. a fridge door), or

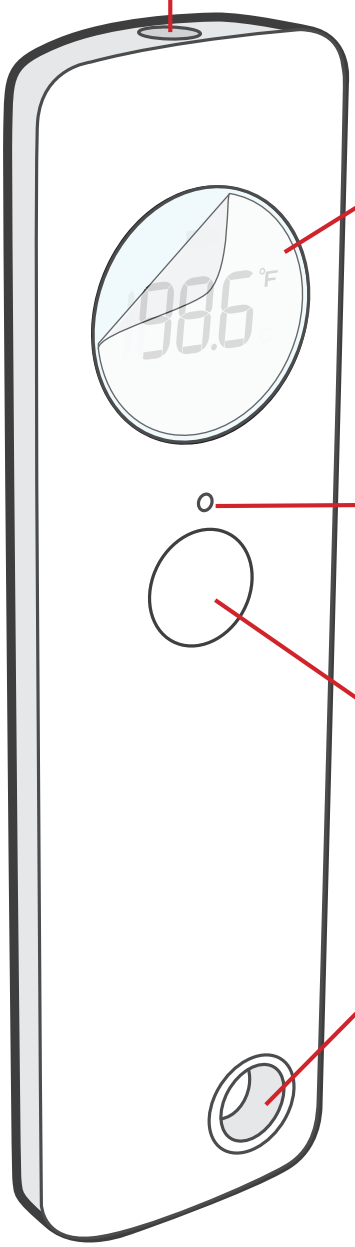
b) Peel off the label to reveal the adhesive pad, then stick to any smooth, clean and dry surface (e.g. cabinet door).

The Wall Mount and ARC InstaTemp™ fit snugly together for easy access to you InstaTemp™ when you need it.

GETTING TO KNOW

The ARC InstaTemp™

**ARC InstaTemp™ (x1)**




**Infrared Sensor**

**Backlit LCD Display Screen Remove protective label prior to commencing operation.**

**Temperature Range Indicator Light**

**Activation Button**

**Wall Mount Dock**

**Internal non removable, non-replaceable, batteries are included**

GETTING TO KNOW

The ARC InstaTemp™

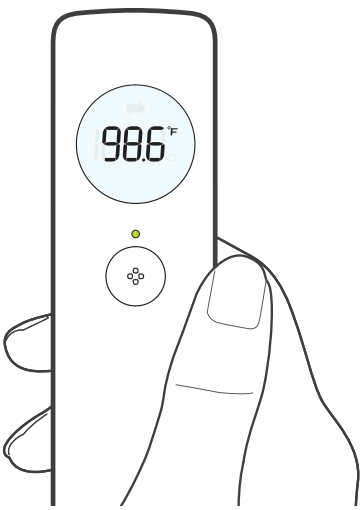
## Features

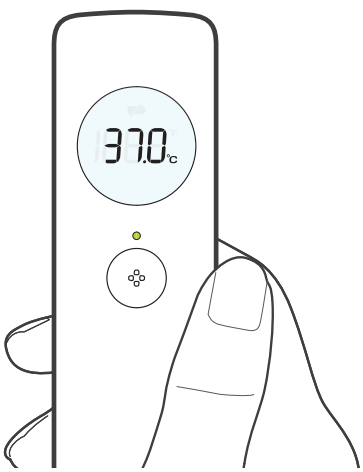
1. Quick and accurate body temperature measurement
2. LCD screen with backlight for ease of use in the dark
3. Temperature shown in either Fahrenheit (F) or Celsius (C)
4. The temperature reading will be displayed on screen for 4 seconds
5. Turns off automatically when not in use
6. Fast temperature readings that meet the ASTM standard
7. LED display temperature range indicator system: Green, Orange, Red.
8. Low battery indicator
9. Wall Mount magnetic/ adhesive holder attachment for easy storage

## OPERATION:

## CHANGING °F TO °C

ARC InstaTemp™ is set to Fahrenheit by default.
To change to Celsius, follow these simple steps:




Press and release the activation button to get a reading. Once the reading appears on screen in Centigrade, press and release the activation button again —the reading will automatically change to Fahrenheit. Repeat to change back.

## OPERATION:
## TAKING A TEMPERATURE

1 Before attempting to take a temperature reading:

Remove protective label prior to operation

Move hair away from the path of the sensor.

Wipe any perspiration from the forehead.

Ensure that the person has been in the room for 20 minutes.

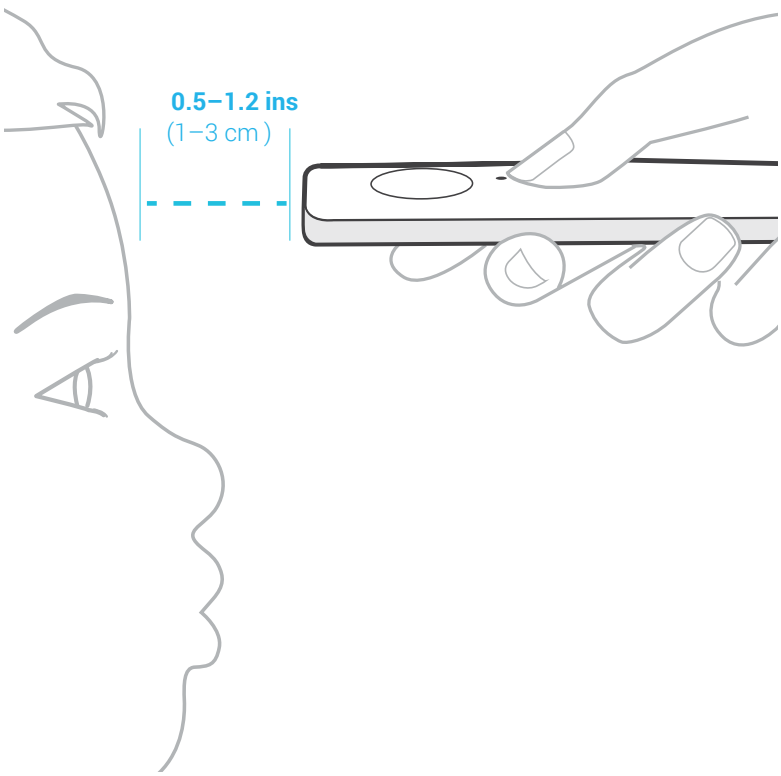
Do not measure the person's temperature immediately after he/she has been exposed to really cold or hot climates, or has drunk a hot or cold liquid as it may temporarily change the surface temperature of the skin. In these instances, wait 20 minutes before taking a temperature reading

Do not touch the lens of the sensor. It is the most delicate part of the ARC InstaTemp™

## OPERATION:
## TAKING A TEMPERATURE

**2** Point the thermometer at the person as shown below. Ensure the device is 0.5–1.2 ins /1–3cm from the forehead, above the eyebrows and between the eyes.

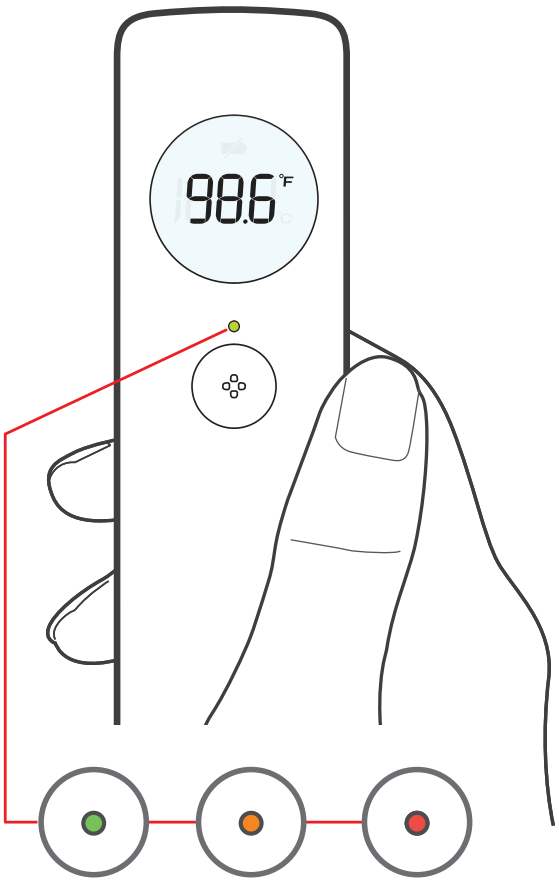
Thermometer must be held steady at a straight angle pointing directly at the center of the forehead at the area above the eyebrows and between the eyes when taking a temperature.




Hold the thermometer in position, and press and release the activation button once, simply point and click. Hold the thermometer in position until the display is illuminated and a temperature reading is displayed on the screen.

## OPERATION:
## TAKING A TEMPERATURE

3 The temperature reading will be displayed for 4 seconds.



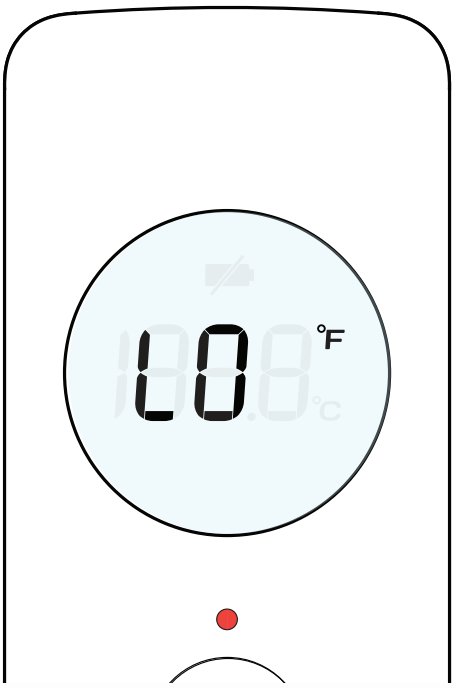

Temperature Range Indicator System

4 The temperature range indicator will be green, orange or red depending on the temperature measurement detected.

Should you wish to take a second reading, wait for 5 seconds and repeat.

Do not hold the activation button between measurements.

# UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

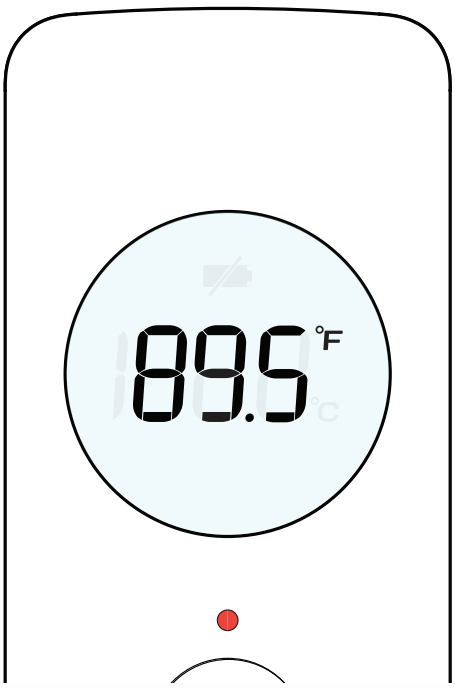



<89.5°F

<32°C

The thermometer measured a temperature <89.5°F. The temperature range indicator is red and LO is displayed.

## UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM




| | |
|---|---|
| ⚠ | >89.5°F – ≤94.9°F |
| ⚠ | >32.0°C – ≤34.9°C |

The thermometer measured a temperature >89.5°F – ≤94.9°F. The temperature range indicator is red and a temperature reading is displayed.

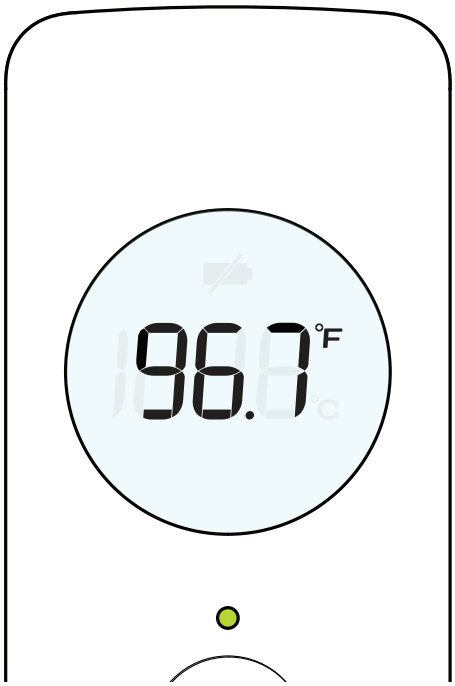
# UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

>94.9°F – ≤96.7°F

>35.0°C – ≤35.9°C

The thermometer measured a temperature >94.9°F – ≤96.7°F. The temperature range indicator is orange and a temperature reading is displayed.

## UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

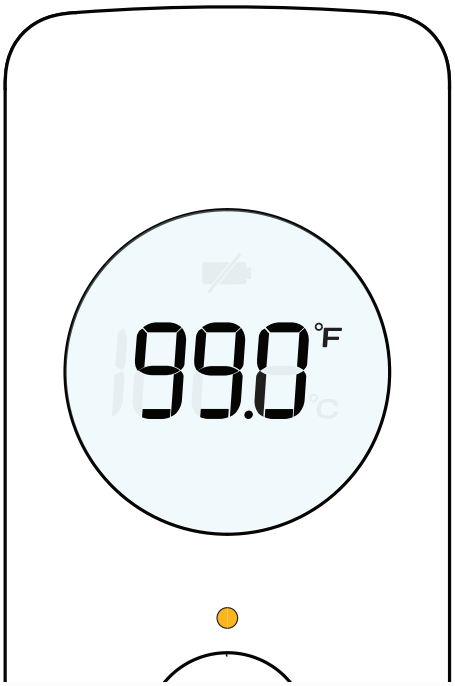



>96.7°F – ≤99.0°F

>36.0°C – ≤37.2°C

The thermometer measured a temperature >96.7°F – ≤99.0°F. The temperature range indicator is green and a temperature reading is displayed.

## UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

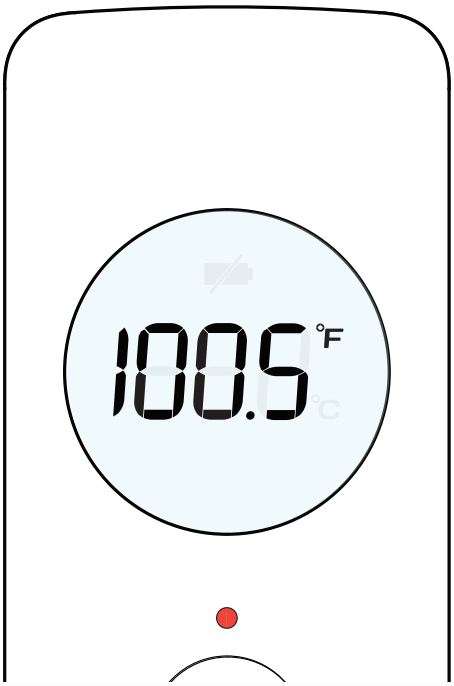



>99.0ºF – ≤100.5ºF

>37.3ºC – ≤38.0ºC

The thermometer measured a temperature >99.0ºF – ≤100.5ºF. The temperature range indicator is orange and a temperature reading is displayed.

# UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

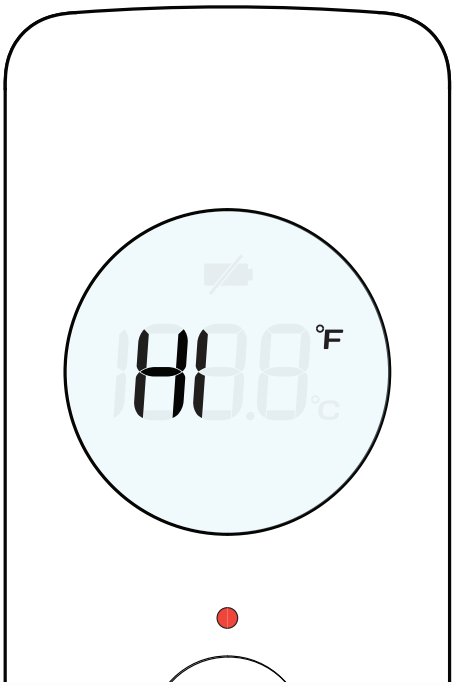



>100.5ºF – ≤109.1ºF

>38.1ºC – ≤42.8ºC

The thermometer measured a temperature >100.5ºF – ≤109.1ºF. The temperature range indicator is red and a temperature reading is displayed.

## UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

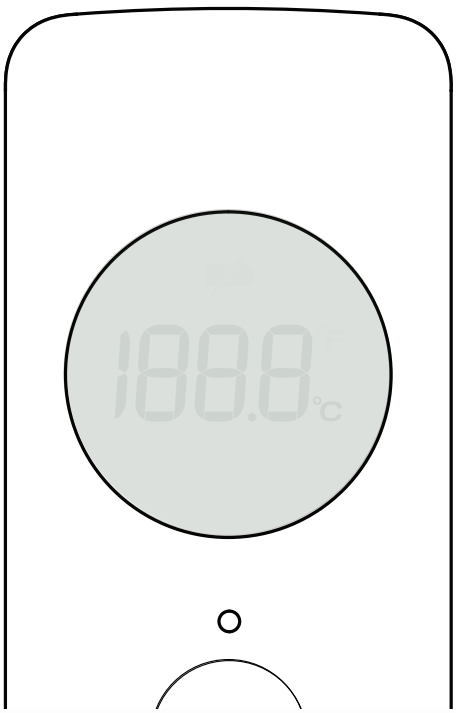



>109.1ºF

>42.8ºC

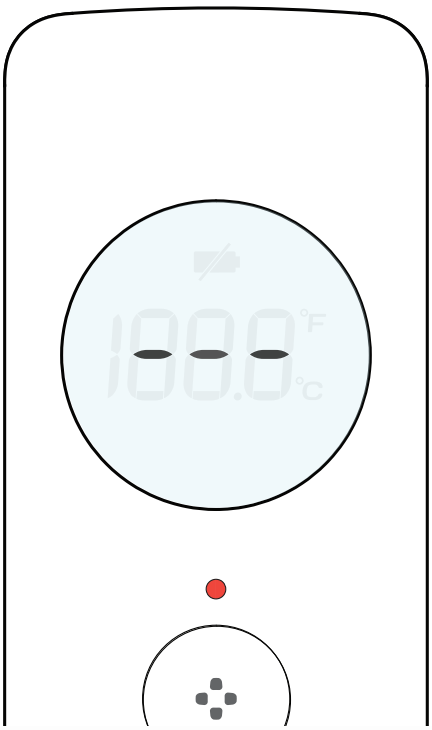
The thermometer measured a temperature >109.1ºF. The temperature range indicator is red and HI is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM



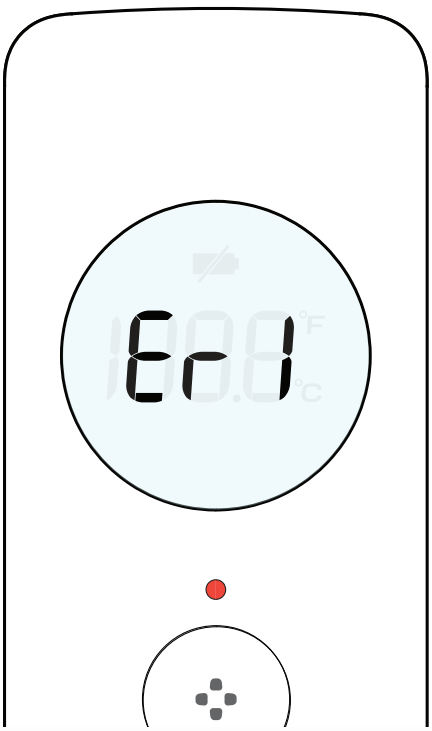

## Sleep Mode

After 4 seconds the backlight, LCD display and temperature range indicator turn off and the thermometer powers down.



## 3 dashes (---)
## Red temperature range indicator light

This indicates an invalid reading. This is due to incorrect usage, such as trying to measure a temperature above or below the thermometer's operating range. Repeat the temperature measurement as described in the section titled 'TAKING A TEMPERATURE'.

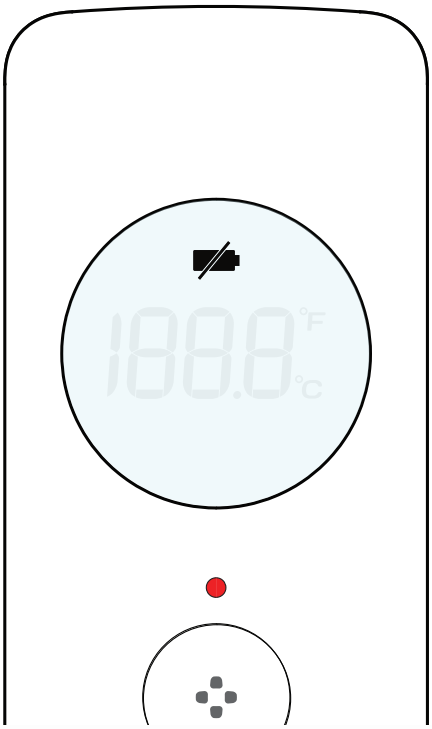



## Er message

Red temperature range indicator light

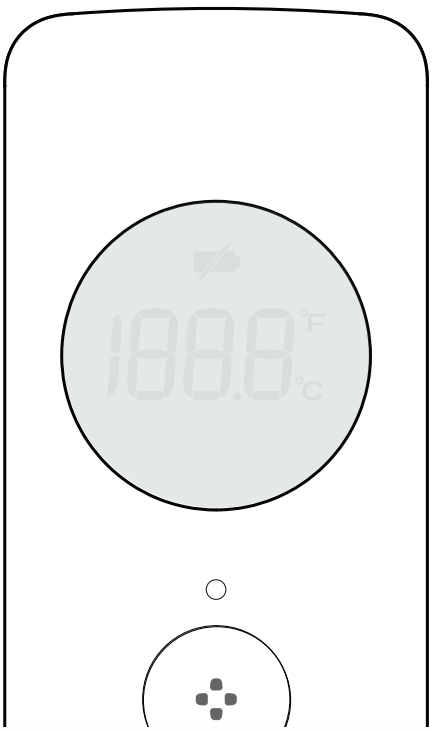
An Er message indicates an internal problem with the thermometer.

If an Er message appears, contact your product supplier and/or www.arcdevices.com/ contact-us.




## Low battery symbol
Red temperature range indicator light

The thermometer battery capacity is too low to take a reading and your thermometer needs to be replaced.




## No function, no display when activation button is pressed

The battery has depleted and can no longer take a temperature reading. Your thermometer needs to be replaced.

# PRECAUTIONS

Essential safety steps to be read and noted before use:

• Read this manual and always follow the instructions as specified when using the ARC InstaTemp™.

• Do not to use the product if the tamper seal has been broken on the outer box or if the packaging is damaged in any way.

• Using this thermometer is not a substitute for consulting your physician.

• The thermometer and the person must remain in a stable climate for at least 20 minutes before a reading can be taken. Do not measure the person's temperature immediately after he/she has been exposed to really cold or hot climates, or has drunk a hot or cold drink. In these instances, wait 20 minutes before taking a temperature reading. Do not apply any hot or cold compress, cloth or gel based, on the person's forehead prior to the measurement for at least 20 minutes.

• Do not drop, tap or shake the ARC InstaTemp™ thermometer. It is a precision device and any damage may result in an inaccurate reading.

# PRECAUTIONS

• The temperature in the forehead area differs from the internal temperature, which is taken orally or rectally. Vasoconstriction, an effect which constricts the blood vessels and cools the skin, can occur in the early stages of a fever. In this case the person's temperature may be unusually low.

• Only use the ARC InstaTemp™ in climate temperatures ranging from 50–104°F (10–40°C). Outside of this range a "---" will be displayed when a measurement is taken, repeat the measurement inside the 50-104°F (10–40°C) range after waiting at least 20 minutes. Do not subject the ARC InstaTemp™ to temperatures above 122°F (60°C) or below -4°F (-20°C). This will affect the thermometer's ability to take an accurate temperature reading.

• Do not use outside or close to a heat or cooling source. Using the thermometer in these conditions may affect the accuracy of the temperature reading.

• Do not allow the ARC InstaTemp™ thermometer to become damp or immersed in water or other liquids.

# PRECAUTIONS

• Do not touch the lens of the infrared sensor. The most important and sensitive part of the thermometer is the sensor.

It is a precision device and this will affect the accuracy of temperature measurements For best results, when not in use, store the ARC InstaTemp™ on the Wall Mount so the infrared sensor is facing down.

• Do not attempt to measure body temperature with the thermometer if:

a) The thermometer has been exposed to extreme conditions,

b) It has been exposed to electric current or electromagnetic fields,

c) It has been exposed to moisture,

d) It has been dropped or shows any signs of damage or malfunction.

e) If there is any visible dust or
dirt on the device lens or in the device lens opening.

# PRECAUTIONS

• Do not attempt to fix or repair the thermometer yourself.

•Do not attempt to replace the internal batteries, The internal batteries are non-removable, non-replaceable and non-serviceable.

• Do not open the thermometer casing.

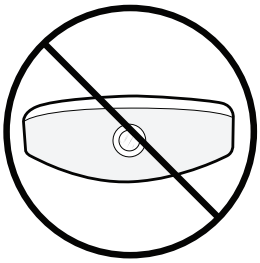
•If the device touches or comes in contact with the person;

a) Do not take a measurement for 1 minute,

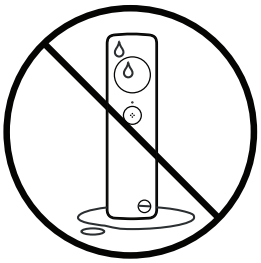
b) Check the device lens and opening for contaminants,

c) Clean the device using the recommended method before taking a measurement of another person.

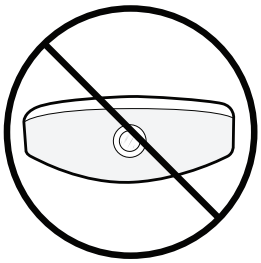
# CLEANING



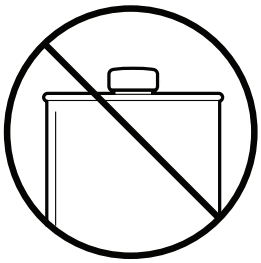
Do not touch the lens of the sensor. It is the most delicate part of the ARC InstaTemp™ thermometer and must be protected from dirt and damage



Do not immerse the ARC InstaTemp™ in water or other liquids. It is not water resistant.



Take care not to scratch the lens of the sensor, the display or the housing.



Never use aggressive cleaning agents.

## CLEANING

Clean the thermometer using a IPA wipe.

## DISPOSAL

This symbol means that according to local laws and regulations your product should be disposed of separately from household waste.

Please note this product contains batteries and magnets and therefore must be disposed of according to local laws and regulations. Do not dispose of this product in a fire as batteries may explode when exposed to excessive heat.

When this product reaches its end of life, take it to acollection point designated by local authorities. Some collection points accept products for free.

## DISPOSAL

The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. Consult your municipal authority or your dealer for information about disposal.

## INFORMATION

The ARC InstaTemp™ Non Touch Infrared Thermometer is a fast, accurate and non-intrusive device for measuring a person's temperature. This device is intended for home use only. Point the thermometer at the person. Ensure the device is 0.5–1.2 ins (1-3cm) from the forehead. Press and release the activation button once and hold the thermometer in position until the backlight illuminates; a temperature reading is displayed. The ARC InstaTemp™ is fast, accurate and designed to allow the person to rest undisturbed.

The ARC InstaTemp™ must not come into contact with a person when measuring temperature. The ARC InstaTemp™ thermometer cannot take an accurate

## INFORMATION

body temperature reading from anywhere other than the forehead and should not be used to do so. This product is intended for household use only. Use of this thermometer is not intended as a substitute for consultation with your physician.

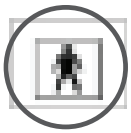
## ICON IDENTIFICATION

This instruction manual belongs to this device. It contains important information about starting up and operation of the thermometer. Read the instruction manual carefully as non-observance of these instructions can result in serious injury or damage to the device.

Manufacturer

Caution; consult section titled ‘Understanding the Temperature Range Indicator System’ and ‘Taking a Temperature’.

## ICON IDENTIFICATION



Degree of protection against electrical shock; there is no conductive connection to the person; Type BF Protection.

DIRECTIVE 2012/19 EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

## TECHNICAL SPECIFICATION

**Name and Model**

ARC InstaTemp™

**Display System**

Digital display (LCD) with backlight

**Temperature Range**

89.5–109.1°F (32.0–42.8°C) Lo and Hi are displayed outside this range "---" displayed for an indeterminate reading or use of the device outside its ambient temperature range

# TECHNICAL SPECIFICATION

**Operating Temperature**
Operational in (50.0–104°F) (10.0–40.0°C) environment. Allow 20 minutes for the device to settle for each 5°F change within the operational environment.

If the device is going to be used having been taken from a storage temperature outside of the operational environment , allow 6 hours for the device to settle.

**Storage/Transport Temperature**
Do not subject the ARC InstaTemp™ to temperatures above 86°F (30°C) or below 41°F (5C°C) when measurements are not being taken with the device

**Measurement Accuracy**
**(Laboratory Error)**
ASTM laboratory accuracy requirements in the display range 37.0° to 39.0°C (98.0° to 102.0°F) for IR thermometers is +/-0.2°C (+/-0.4°F) per ASTM standard 1965-8, whereas for Mercury in glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is +/-0.1C (+/- 0.2F)

**Temperature Display**
Units °F or °C (user selectable)

# TECHNICAL SPECIFICATION

**Response Time**
<1 second from press of scan button

**Measurement Display Time**
4 sec ± 0.5 seconds before automatic shutdown

**Automatic Switch Off**
After the display period is complete, the thermometer will automatically shutdown
to conserve measurement lifetime

**Power Supply**
2 x 1.5v AAAA batteries – internal, non- replaceable

**Battery Life**
Approx. 7,500 measurements

**Dimensions**
1.37” x 0.55” x 5.08”

**Weight**
1.94oz

**Electromagnetic Compatibility**
This device complies with the EN60601-1-2 standard for electromagnetic compatibility

# WARRANTY

The ARC InstaTemp thermometer has a limited two year warranty. Should service be required during or after the warranty period, you must call ARC InstaTemp's Customer Service Department at 561-288-6508 to obtain a return authorization number and shipping address. Repackage the thermometer carefully in its original packaging or securely packed to avoid damage during shipping. Include the original sales slip indicating the date of purchase, a note describing the problem, your authorization number, and your return address.

Send the ARC InstaTemp thermometer prepaid and insured. Answers to any question regarding operation of the ARC InstaTemp thermometer may be obtained by calling us at: 561-288-6508 Monday-Friday 6:30 AM to 5:00 PM Eastern

ARC Devices USA, Inc.
1200 N. Federal Hwy, Ste 200
Boca Raton, FL 33432

# WARRANTY

**Limited two year warranty**

ARC warrants this product against any defects that are due to faulty material or workmanship for a period of two years from the original date of consumer purchase or receipt as a gift. This warranty applies when used for normal household use in accordance with the Use and Care Manual and excludes the battery and damage to the product resulting from accident or misuse. This product is not warranted when used in a professional environment. In no event shall ARC be liable for any special, incidental, indirect or consequential damages in connection with the purchase or use of this product or costs over the original cost of the product. If the product should become defective within the warranty period, contact ARC InstaTemp's Customer Support Department at 561-288-6508 for repair or replacement at no charge. ARC reserves the right to replace a defective product with the most comparable product currently available. This product has a five year minimum expected lifetime.  While this warranty gives you specific legal rights, you may also have other rights which vary from state to state or province to province.

## ARC Devices

**ARC Devices Ltd,**
**Galway Technology Centre,**
**Mervue Business Park,**
**Galway,**
**Ireland**

**Phone: +00 353 1 5134074**
**info@arcdevices.com**
**www.arcdevices.com**

In accordance with our policy of continual product improvements we reserve the right to make technical changes to the product without notice

PT-100097 Revision 2